FGFR4

Recombinant Human FGFR-4/Fc Chimera, soluble

Catalog No.	CRF019A	**Quantity:**	10 µg
	CRF019B		50 µg

Alternate Names: Fibroblast growth factor receptor 4, CD334

Description: Recombinant human soluble FGFR-4 was fused with the Fc part of human IgG_1 and is a disulfide-linked heterodimeric protein.

Fibroblast growth factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorgenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding.

Four distinct genes encoding closely related FGF receptors, FGF R1 - 4, are known. All four genes for FGF Rs encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid-box region containing a run of acidic residues between the IgI and IgII domains, a transmembrane domain and the split tyrosine-kinase domain. Multiple forms of FGF R1 - 3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGF R1 and 2 results in receptors containing all three Ig domains, referred to as the a isoform, or only IgII and IgIII, referred to as the b isoform. Only the a isoform has been identified for FGF R3 and FGF R4. Additional splicing events for FGF R1 - 3, involving the C-terminal half of the IgIII domain encoded by two mutually exclusive alternative exons, generate FGF receptors with alternative IgIII domains (IIIb and IIIc). A IIIa isoform which is a secreted FGF binding protein containing only the N-terminal half of the IgIII domain plus some intron sequences has also been reported for FGF R1. Mutations in FGF R1 - 3 have been found in patients with birth defects involving craniosynostosis.

UniProt ID: P22455

Gene ID: 2264

Source: Insect cells

Molecular Weight: 170 kDa (578 aa) predicted, heterodimer
190 kDa, apparent, due to glycosylation, non-reduced

Formulation: Lyophilized from PBS

Purity: > 90%, by SDS-PAGE and visualized by silver stain

Endotoxin Level: < 1 EU/µg

Biological Activity: Measured by its ability to bind recombinant human FGF-2 in a functional solid phase binding assay.

Reconstitution: **Centrifuge vial prior to opening.** The lyophilized sFGFR-4/Fc should be reconstituted in PBS or medium to > 50 µg/ml.

Storage & Stability: Store lyophilized product for up to 1 year at -20°C to -80°C. Reconstituted sFGFR-4a (IIIc)/Fc should be stored in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles**.

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Amino Acid Sequence: LEASEEVELEPCLAPSLEQQEQELTVALGQPVRLCCGRAERGGHWYKEGSRLAPAGR
VRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSSNDDEDPKSHRDPS
NRHSYPQQAPYWTHPQRMEKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGE
NRIGGIRLRHQHWSLVMESVVPSDRGTYTCLVENAVGSIRYNYLLDVLERSPHRPILQA
GLPANTTAVVGSDVELLCKVYSDAQPHIQWLKHIVINGSSFGADGFPYVQVLKTADINSS
EVEVLYLRNVSAEDAGEYTCLAGNSIGLSYQSAWLTVLPEEDPTWTAAAPEARYTDTRS
DKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV
DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISK
AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
MLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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